Location Oahu to 19°40'N 159°02'W

Observer Date 3 February, 1964 Time 0950 to 1730

Weather 9.0

120 miles

February 3 1964

SPECIES	Abundance 1-10	10-100	100-1000	1000 +	Breeding Nests	Eggs	Young	Remarks
Laysan Albatross								
Black-footed Albatross	2	+						
Wedge-tailed Shearwater	/							0.1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby	/							
Red-footed Booby	/							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		51						6.4
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	2							
Pomarine Jaeger	1							
Jaeger	8							
Tropicbird	1							
Tern		20						11.9
Pterodroma	1							
Shearwater-Petrel	2							
Bird	4							Total Birds = 95

16°5' / 162°50'

Location 17° 40'N to 161° 00'W to 16° 00'N T 163° 00'W

Observer Date 4 February, 1964 Time 0700 to 1735

Weather 10.6

156 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	2							
Wedge-tailed Shearwater								6.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird	2							
Masked Booby								
Brown Booby								
Red-footed Booby	2							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		59						5.6
Gray-backed Tern	2							
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	3							
Leach's Storm Petrel	1							
								1.9
Booby	2							
tropicbird	3							
Bird	2							Total birds = 79

Location 13°54'N 164°35'W to 11°54'N 166°29'W

Observer

Date 5 February, 1964 Time 0700 to 1815

Weather

150 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								2.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel	2							
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird	1							
Masked Booby	1							
Brown Booby								
Red-footed Booby	2							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								6.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Pterodroma	4							1.3
tropicbird	1							
Frigatebird	1							
Shearwater-Petrel	2							Total birds = 15

Location 09°51'N & 168°22'W to 07°51'N & 170°11'W

Observer Date 6 February, 1964 Time 0710 to 1750

Weather 10.3
16 miles

SPECIES	Abundance 1-10	10-100	100-1000	1000 +	Breeding Nests	Eggs	Young	Remarks
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird								
Masked Booby	6							
Brown Booby								
Red-footed Booby	9							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern			225					21 8
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Leach's Storm Petrel	5							
tropicbird	1							
Tern	2							
Goony	1							
Pterodroma	3							
Shearwater-Petrel		10						
Bird	1							Total birds = 264

Location 06°01'N T 171°50'W to 04°15'N T 173°29'W

Observer Date 7 February, 1964 Time 0700 to 1750

Weather

145 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird	1							
Masked Booby	5							
Brown Booby								
Red-footed Booby	2							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Leach's Storm Petrel	1							
tropicbird	1							
Pterochroma	2							Total birds = 13

Location 02°08'N × 175°01'W to Howland Island

Observer Date 8 February, 1964 Time 0710 to 1342

Weather 6.6

no observation 1130 - 1155 119 miles

SPECIES	Abundance 1-10	10-100	100-1000	1000 +	Breeding Nests	Eggs	Young	Remarks
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	1							
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby	3							
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	2							
Leach's Storm Petrel	1							
Pterodroma	1							Total birds = 8

1.2

07°15'S & 170°40'W

Location

Observer

Date 4 March, 1964 Time 0730 to 1920

Weather

10.8

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								2.0
Christmas I. Shearwater		14						14+ dark phase
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	3							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		80						7.4
Gray-backed Tern								
Brown-winged Tern								
Common Noddy	6							
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	2							
Leach's Storm Petrel	2							
Storm Petrel	1							
Tern		70						19.7
Frigatebird	7							
Shearwater-Petrel		16						
Bird	2							Total birds = 208

MARCH 1964

11°-36'S 170°12'W

Location

Observer Date 5 March, 1964 Time 0730 to 1815

Weather 10.8

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird	6							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone	2							
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	5							0.5
Gray-backed Tern								
Brown-winged Tern								
Common Noddy		10						
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern		67						
Tern	2							
frigatebird	2							
booby	2							
bird	2							
Shearwater-Petrel		12						Total birds = 111

10 ?

Location Pago Pago to 12°46'S & 169°11'W

Observer

Date 10 March, 1964 Time 0950 to 1815

Weather

8, 8

118 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	5							0.6
Christmas I. Shearwater								
Audubon's Shearwater	1							
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird		13						
Masked Booby								
Brown Booby	9							
Red-footed Booby		80						
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.3
Gray-backed Tern								
Brown-winged Tern								
Common Noddy		64						
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern		14						
tern		15						
Shearwater-Petrel		10						
bird	2							total birds = 213

Location 09°20'S x 166°25'W to 09°40'S x 166°20'W

9°30' to 166°23

Observer

Date 11 March, 1964 Time 0730 to 1808

Weather

10.6

156 miles

SPECIES	Abundance 1-10	10-100	100-1000	1000 +	Breeding Nests	Eggs	Young	Remarks
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater		13						1, 2
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	2							
Masked Booby								
Brown Booby								
Red-footed Booby	1							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	4							0 4
Gray-backed Tern								
Brown-winged Tern								
Common Noddy	3							
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	2							
								2.6
bird	3							Total birds = 28

(Cocos I)

Location 07° 00' S ~~T~~ 164° 55' W to 04° 20' S ~~T~~ 163° 12' W

Observer Date 12 March, 1964 Time 0730 to 1910

Weather

10.7

160 miles

SPECIES	Abundance 1-10	Abundance 10-100	Abundance 100-1000	Abundance 1000 +	Breeding Nests	Breeding Eggs	Breeding Young	Remarks
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	/							0.1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	/							
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		32						3.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	4							
Leach's Storm Petrel	1							
Tern	2							
Shearwater Petrel		10						

Total birds = 51

4.5

Location 02°30'S 7 162°16'W to 01°03'S 7 161°40'W (01°45'N 158°)

Observer Date 13 March, 1964 Time 0730 to 1810

Weather 10.7

< 15-6 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	4							0.4
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	/							
Sooty Petrel								
Red-tailed Tropicbird	/							
White-tailed Tropicbird								
Masked Booby	/							
Brown Booby								
Red-footed Booby	/							
Great Frigatebird	/							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern			150					12.1
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy	1							
Blue-gray Noddy								
Fairy Tern	4							
Leach's Storm Petrel	2							
Frigatebird	9							total birds = 155

(0632) 16°35' (1851) 18°04'

Location 15° 20'N 7 159°30'W to 17°50'N 7 158°40'W

Observer Date 6 April, 1964 Time 0800 to 1710

Weather 9.2

≤ 150 miles

SPECIES	Abundance 1-10	10-100	100-1000	1000 +	Breeding Nests	Eggs	Young	Remarks
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	5							0.5
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel	1							
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird								
Masked Booby	1							
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	8							0.9
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Storm Petrel	1							
Jaeger	2							0.1
0.2 Sooty ? Shearwater	2							?
Shearwater-Petrel		22						
Bird	4							Total Birds = 47

APRIL 1964